


**Electronic Filing System (EFS) Data**  
**Electronic Patent Application Submission**  
**USPTO Use Only**

EFS ID: 11830  
Application ID: 09682007  
Title of Invention: Enhanced Volume Phase Grating  
with High Dispersion, High  
Diffraction Efficiency and Low  
Polarization Sensitivity  
First Named Inventor: LeRoy Dickson  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2001-07-09  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: 07032001  
Digital Certificate Holder: cn=LeRoy David Dickson, ou=Independent Inventors, ou=Patent  
and Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: wsEAU/XtttPoB49TwHAafg==  
  
Total Fees Authorized: \$355.0  
Payment Category: CC - Credit Card  
Credit Card Number: \*\*\*\*\*1000  
Expiration Date: 01012002  
Card Holder Name: LEROY D DICKSON  
RAM User ID: EFSPROD  
RAM Accounting Date: 2001-07-09  
RAM Sequence Number: 310915  
RAM Payment Status: RAM success  
Postal Code: 84746-1177

# TRANSMITTAL FORM

JC474 U.S. PTO  
09/682007  
07/09/01

Electronic Version 1.0.2

Stylesheet Version: 1.0

Attorney Docket Number: 07032001

## Enhanced Volume Phase Grating with High Dispersion, High Diffraction Efficiency and Low Polarization Sensitivity

First Named Inventor: LeRoy Dickson

### SUBMITTED BY

Name: Dr. LeRoy David Dickson

Electronic Signature Mark: LDD626 Date Signed: 20010703

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

fee-transmittal	E-VPGappfee.xml
specification	E-VPG app.xml
declaration	Declaration.tif
small-entity	SmallEntity.tif

bibd-transmittal

E-VPGappapds.xml

Attached Image File(s):

Declaration.tif

SmallEntity.tif

11/11/2011 11:11:11 AM

Comments:

11/11/2020 11:11:11 AM

## Declaration for Utility or Design Patent Application

As a below-named inventor, I hereby declare that my residence, post office address, and citizenship are as stated below next to my name and that I believe that I am the original, first, and sole inventor [if only one name is listed below] or an original, first, and joint inventor [if plural names are listed below] of the subject matter which is claimed and for which a patent is sought on the invention, the specification of which is attached hereto and which has the following title:

**"ENHANCED VOLUME PHASE GRATING WITH HIGH DISPERSION, HIGH DIFFRACTION EFFICIENCY AND LOW POLARIZATION SENSITIVITY"**

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration. I acknowledge a duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, Section 1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please send correspondence and make telephone calls to the First Inventor below.

Signature: Sole/First Inventor: Leroy D. Dickson

Print Name: LEROY D. DICKSON Date: 2/03/01

Legal Residence: \* 988 BONANZA ROAD Citizen of: USA

Post Office Address: P.O. Box 461177

LEEDS, UTAH 84746-1177

Telephone: 435-879-1935

Signature: Joint/Second Inventor: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Residence: \* \_\_\_\_\_ Citizen of: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

\* City and state, county and state or city, state and country, if foreign.

In the United States Patent and Trademark Office

First/Sole Applicant: LEROY D. DICKSON

Joint/Second Applicant: \_\_\_\_\_

Title: ENHANCED VOLUME PHASE GRATING WITH HIGH DISPERSION, HIGH DIFFRACTION EFFICIENCY AND LOW POLARIZATION SENSITIVITY

Small Entity Declaration—Independent Inventor(s)

As a below-named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35 United States Code, to the Patent and Trademark Office with regard to my above-identified invention described in the specification filed herewith. I have not assigned, granted, conveyed, or licensed—and am under no obligation under any contract or law to assign, grant, convey, or license—any rights in the invention to either (a) any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or (b) any concern which would not qualify as either (i) a small business concern under 37 CFR 1.9(d) or (ii) a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed—or am under an obligation under contract or law to assign, grant, convey, or license—any rights in the invention is listed below:

☒ There is no such person, concern, or organization.

☐ Any applicable person, concern, or organization is listed below.\*

Full Name: \_\_\_\_\_

Address: \_\_\_\_\_

I acknowledge a duty to file, in the above application for patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

LeRoy D. Dickson  
Signature of Sole/First Inventor

LEROY D. DICKSON  
Print Name of Sole/First Inventor

2/3/01  
Date of Signature

\_\_\_\_\_  
Signature of Joint/Second Inventor

\_\_\_\_\_  
Print Name of Joint/Second Inventor

\_\_\_\_\_  
Date of Signature

\*Note: A separate Small Entity Statement is required from any listed entity.

# FEE TRANSMITTAL

Electronic Version 1.0.4

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Small Entity

Independent Inventor

**TOTAL FEES AUTHORIZED: \$ 355**

## BANK (CREDIT) CARD INFORMATION:

Credit Card Number: 1000  
Expiration Date: 20020101  
Authorized Name: LEROY D DICKSON  
Billing Address: 84746-1177

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	201	\$ 355

Subtotal For Basic Filing Fee: \$ 355

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 8	203	\$ 9	0	\$ 0
Independent Claims: 2	202	\$ 40	0	\$ 0

Subtotal For Extra Claims Fees: \$ 0